

porter 120 (FIG. 1). When transporter 120 (FIG. 1) is again needed, commands can be initiated by external application 140 (FIG. 4) to recall transporter 120 (FIG. 1) to the user. Method 1150 can include, but is not limited to including, locating 1651 at least one storage/charging area, and providing 1655 at least one movement command 630 (FIG. 17B) to move transporter 120 (FIG. 1) from a first location to the storage/charging area. Method 1150 can include locating 1657 a charging dock in the storage/charging area and providing 1663 at least one movement command 630 (FIG. 17B) to couple transporter 120 (FIG. 1) with the charging dock. Method 1150 can optionally include providing at least one movement command 630 (FIG. 17B) to move transporter 120 (FIG. 1) to the first location when transporter 120 (FIG. 1) receives an invocation command. If 1653 there is no storage/charging area, or if 1659 there is no charging dock, or if 1666 transporter 120 (FIG. 1) cannot couple with the charging dock, method 1150 can optionally include providing 1665 at least one alert to the user, and providing 1667 at least one movement command 630 (FIG. 17B) to move transporter 120 (FIG. 1) to the first location.

[0115] Referring now to FIG. 17B, static storage/charging mode 605F can include, but is not limited to including, storage/charging area processor 702A that can locate at least one storage/charging area 695, and can provide at least one movement command 630 to move transporter 120 (FIG. 1) from a first location to storage/charging area 695. Coupling processor 702D can locate a charging dock in a storage/charging area, and can provide at least one movement command 630 to couple transporter 120 (FIG. 1) with the charging dock. Return processor 702B can optionally provide at least one movement command 630 to move transporter 120 (FIG. 1) to the first location when transporter 120 (FIG. 1) receives an invocation command. If there is no storage/charging area 695, or if there is no charging dock, or if transporter 120 (FIG. 1) cannot couple with the charging dock, error processor 702E can optionally provide at least one alert to the user, and can providing at least one movement command 630 to move transporter 120 (FIG. 1) to the first location.

[0116] Referring now to FIG. 18A, method 1250 for negotiating an elevator while maneuvering transporter 120 (FIG. 1) can assist a user in getting on and off elevator 685 (FIG. 18B) in transporter 120 (FIG. 1). Sensor processing 661 can be used to locate elevator 685 (FIG. 18B), for example, or elevator location 685A (FIG. 18B) can be determined from local storage 607H (FIG. 14B) and/or storage cloud 607G (FIG. 14B). When elevator 685 (FIG. 18B) is located, and when the user selects the desired elevator direction, and when elevator 685 (FIG. 18B) arrives and the door opens, elevator mode 605D (FIG. 18B) can provide movement commands 630 (FIG. 18B) to move transporter 120 (FIG. 1) into elevator 685 (FIG. 18B). The geometry of elevator 685 (FIG. 18B) can be determined and movement commands 630 (FIG. 18B) can be provided to move transporter 120 (FIG. 1) into a location that makes it possible for the user to select a desired activity from the elevator selection panel. The location of transporter 120 (FIG. 1) can also be appropriate for exiting elevator 685 (FIG. 18B). When the elevator door opens, movement commands 630 (FIG. 18B) can be provided to move transporter 120 (FIG. 1) to fully exit elevator 685 (FIG. 18B). Method 1250 can include, but is not limited to including, locating 1751 elevator 685 (FIG. 18B), where elevator 685

(FIG. 18B) has an elevator door and an elevator threshold associated with the elevator door. Method 1250 can include providing 1753 at least one movement command 630 (FIG. 18B) to move transporter 120 (FIG. 1) through the elevator door beyond the elevator threshold. Method 1250 can also include determining 1755 the geometry of elevator 685 (FIG. 18B), and providing 1757 at least one movement command 630 (FIG. 18B) to move transporter 120 (FIG. 1) into a floor selection/exit location relative to the elevator threshold. Method 1250 can also include providing 1759 at least one movement command 630 (FIG. 18B) to move transporter 120 (FIG. 1) across and beyond the elevator threshold to exit elevator 685 (FIG. 18B).

[0117] Referring now primarily to FIG. 18B, elevator mode 605D can include, but is not limited to including, elevator locator 711A that can locate elevator 685 having an elevator door and an elevator threshold associated with the elevator door. Elevator locator 711A can save obstacles 623, elevators 685, and elevator locations 685A in elevator database 683B, for example. Elevator database 683B can be located locally or remotely from transporter 120. Entry/exit processor 711B can provide at least one movement command 630 to move transporter 120 (FIG. 1) through the elevator door beyond the elevator threshold to either enter or exit elevator 685. Elevator geometry processor 711D can determine the geometry of elevator 685. Entry/exit processor 711B can provide at least one movement command 630 to move transporter 120 (FIG. 1) into a floor selection/exit location relative to the elevator threshold.

[0118] Configurations of the present teachings are directed to computer systems for accomplishing the methods discussed in the description herein, and to computer readable media containing programs for accomplishing these methods. The raw data and results can be stored for future retrieval and processing, printed, displayed, transferred to another computer, and/or transferred elsewhere. Communications links can be wired or wireless, for example, using cellular communication systems, military communications systems, and satellite communications systems. Parts of system 200A (FIG. 4), for example, can operate on a computer having a variable number of CPUs. Other alternative computer platforms can be used.

[0119] The present configuration is also directed to software and/or firmware and/or hardware for accomplishing the methods discussed herein, and computer readable media storing software for accomplishing these methods. The various modules described herein can be accomplished by the same CPU, or can be accomplished by different CPUs tightly or loosely coupled. The various modules can be accomplished by specially-designed integrated circuits. In compliance with the statute, the present configuration has been described in language more or less specific as to structural and methodical features. It is to be understood, however, that the present configuration is not limited to the specific features shown and described, since the means herein disclosed comprise various forms of putting the present teachings into effect.

[0120] Methods 650 (FIGS. 11A1-11A2), 750 (FIG. 13A), 850 (FIGS. 14A1-14A2), 950 (FIG. 15A), 1050 (FIGS. 16A1-16A2), 1150 (FIG. 17A), and 1250 (FIG. 18A), can be, in whole or in part, implemented electronically. Signals representing actions taken by elements of system 200A (FIG. 4) and other disclosed configurations can travel over at least one live communications network 143/144 (FIG. 4).